

DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY AFFAIRS (PERA)

BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208 Miami, Florida 33175-2474 T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/pera/

Air Balance Incorporated 450 Riverside Drive Wyalusing, PA 18853

Scope:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code. This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Model A-220 4" Aluminum Louver System

APPROVAL DOCUMENT: Drawing No. **1262**, titled "Model A-220, 4" Louver System", sheets 1 through 7 of 7, dated 11/18/2003, with revision A2 dated 11/08/2011, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren. W. Schaefer, P.E., bearing the Miami-Dade County Product Control revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official. This NOA revises NOA # 08-1030.04 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by Carlos M. Utrera, P.E.

MIAMIDADE COUNTY
APPROVED

101/18/2012

NOA No. 11-1117.16 Expiration Date: July 27, 2013 Approval Date: January 26, 2012

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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. 1262, titled "Model A-220, 4" Louver System, sheets 1 through 7 of 7, dated 11/18/2003, with revision A2 dated 11/08/2011, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E.

B. TESTS "Submitted under NOA # 08-1030.04"

- 1. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
 - 2) Large Missile Impact Test per FBC, TAS 201-94
 - 3) Cyclic Wind Pressure Loading per FBC, TAS 203-94

along with marked-up drawings and installation diagram, of "A-220 4" Aluminum Louver", prepared by Hurricane Test Laboratory, Inc., Report No. **0198-0811-08**, dated 09/17/2008, signed and sealed by Vinu J. Abraham, P.E.

C. CALCULATIONS "Submitted under NOA # 08-1030.04"

1. Revision calculations prepared by W.W. Schaefer Engineering & Consulting, P.A., dated 04/17/2008, signed and sealed by Warren W. Schaefer, P.E.

"Submitted under NOA No. 04-0204.02"

- 2. Allowable Load Calculations, dated 11/10/1999, pages 1 to 3 of 3, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by W. W. Schaefer, P.E.
- 3. Allowable Load Calculations, dated 04/14/2000, pages 1 to 6 of 6, prepared by W. W. Schaefer Engineering & Consulting, P.A. signed and sealed by W. W. Schaefer, P.E.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Permitting, Environment, and Regulatory Affairs (PERA)

E. MATERIAL CERTIFICATIONS

1. None.

Carlos M. Utrera, P.E. Product Control Examiner NOA No. 11-1117.16

Expiration Date: July 27, 2013 Approval Date: January 26, 2012

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS

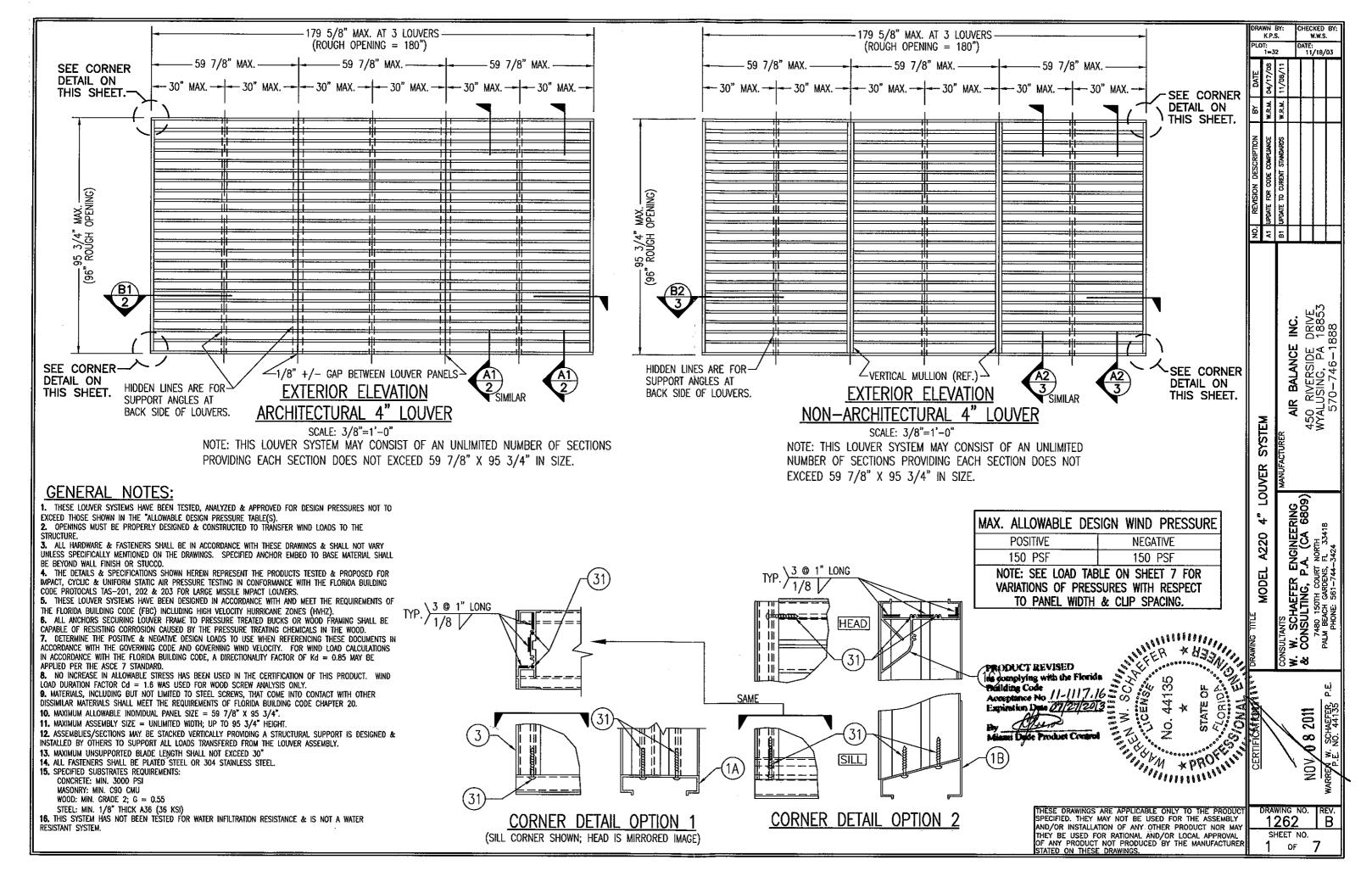
- 1. Statement letter of code conformance to 2007 and 2010 FBC issued by W. W. Schaefer Engineering & Consulting, P.A., dated 11/08/2011, signed and sealed by Warren W. Schaefer, P.E.
- 2. No financial interest letter issued by W. W. Schaefer Engineering & Consulting, P.A, dated 11/08/2011, signed and sealed by Warren W. Schaefer, P.E.

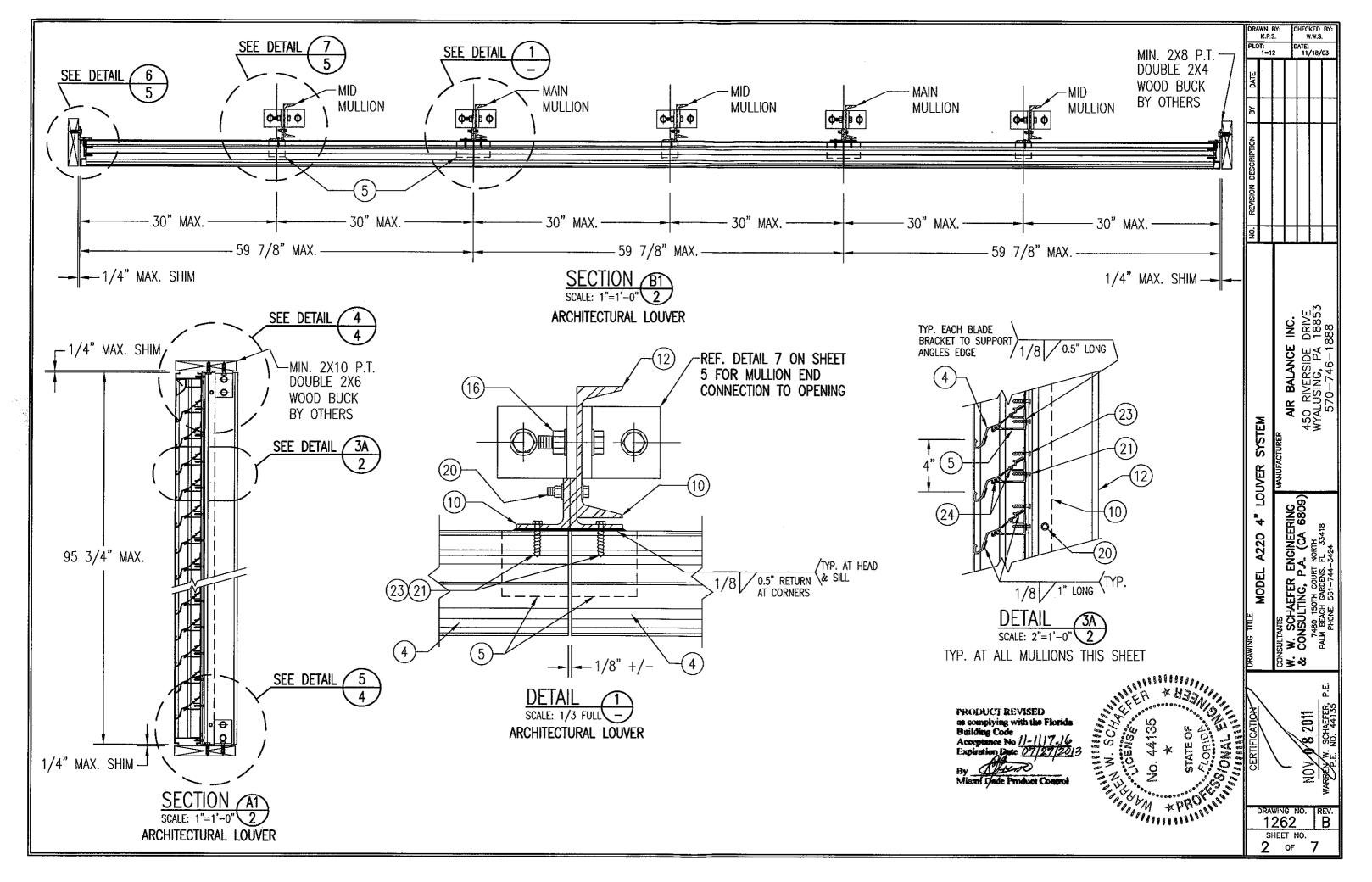
"Submitted under NOA # 08-1030.04"

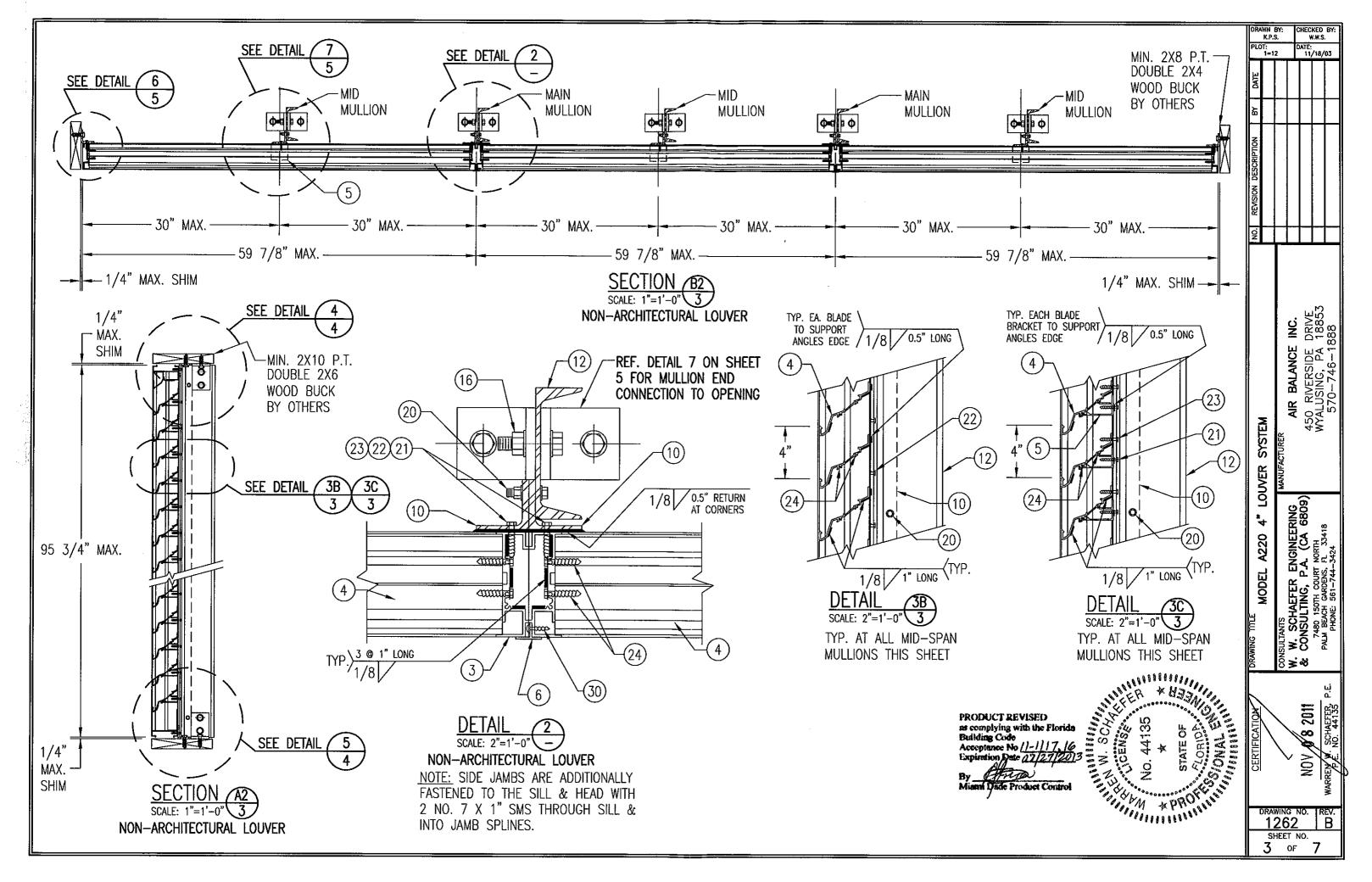
3. Test compliance letter issued by Hurricane Test Laboratory, Inc., dated 09/17/2008, signed and sealed by Vinu J. Abraham, P.E.

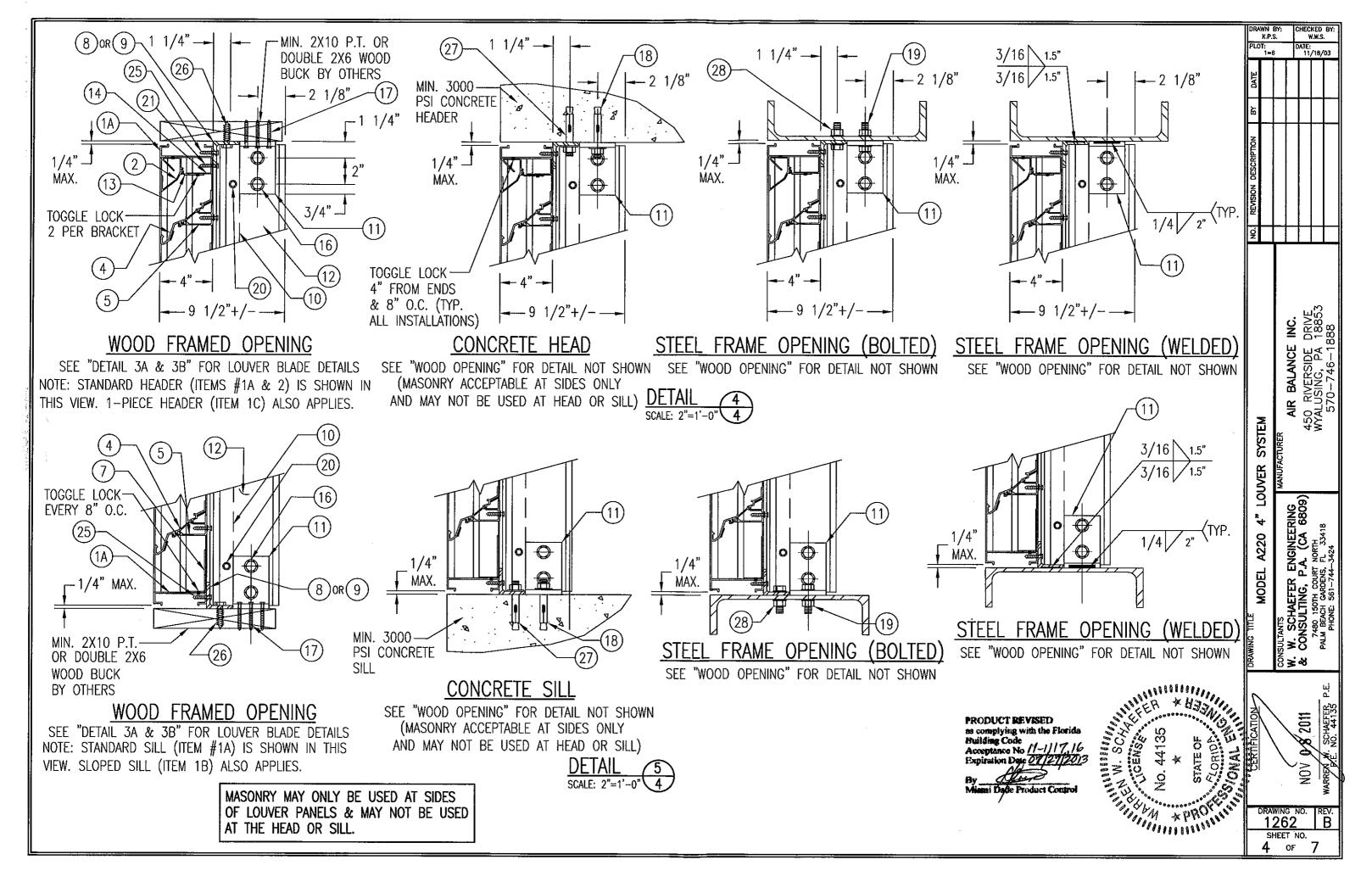
101/18/2012

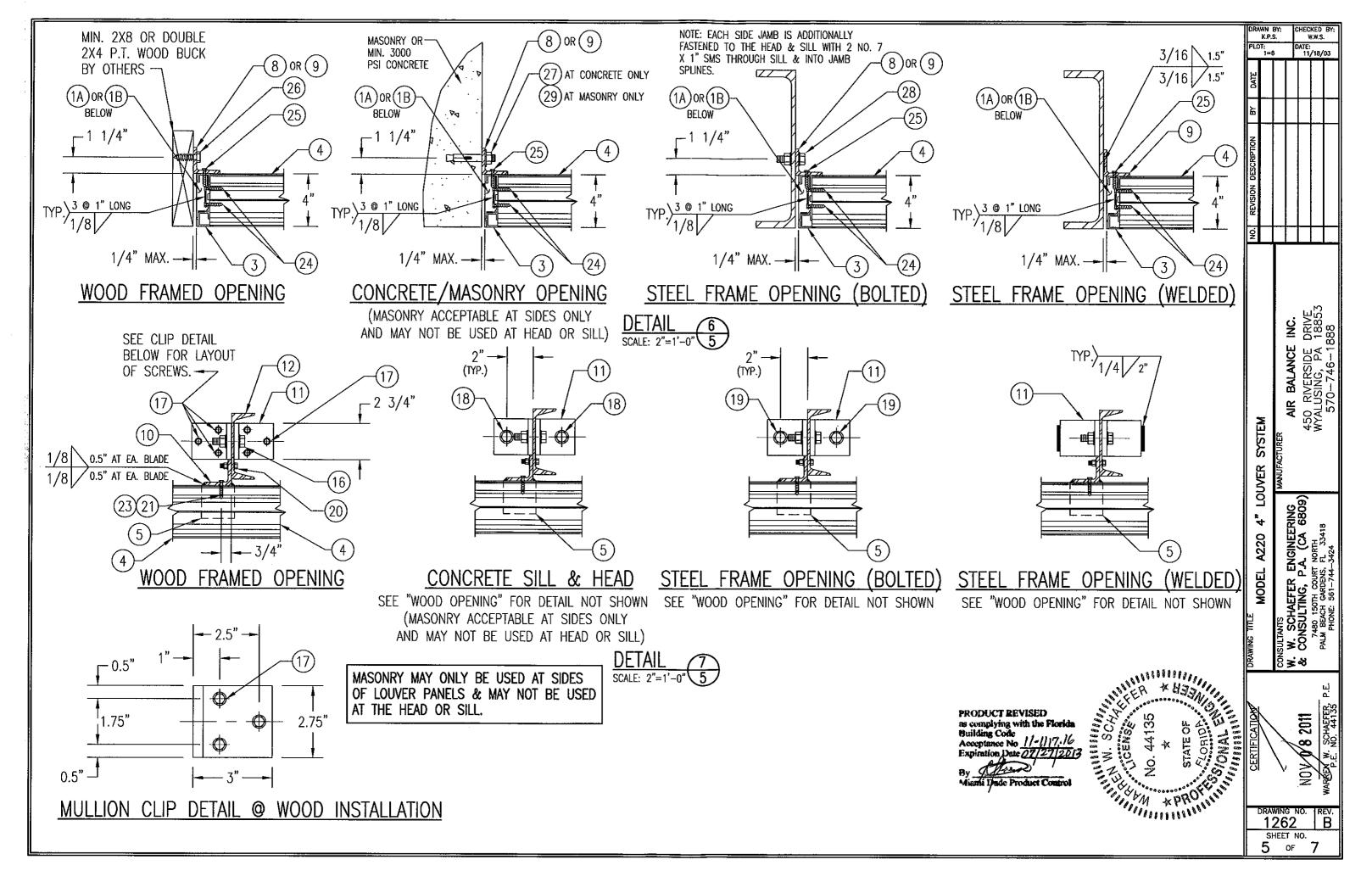
Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 11-1117.16
Expiration Date: July 27, 2013
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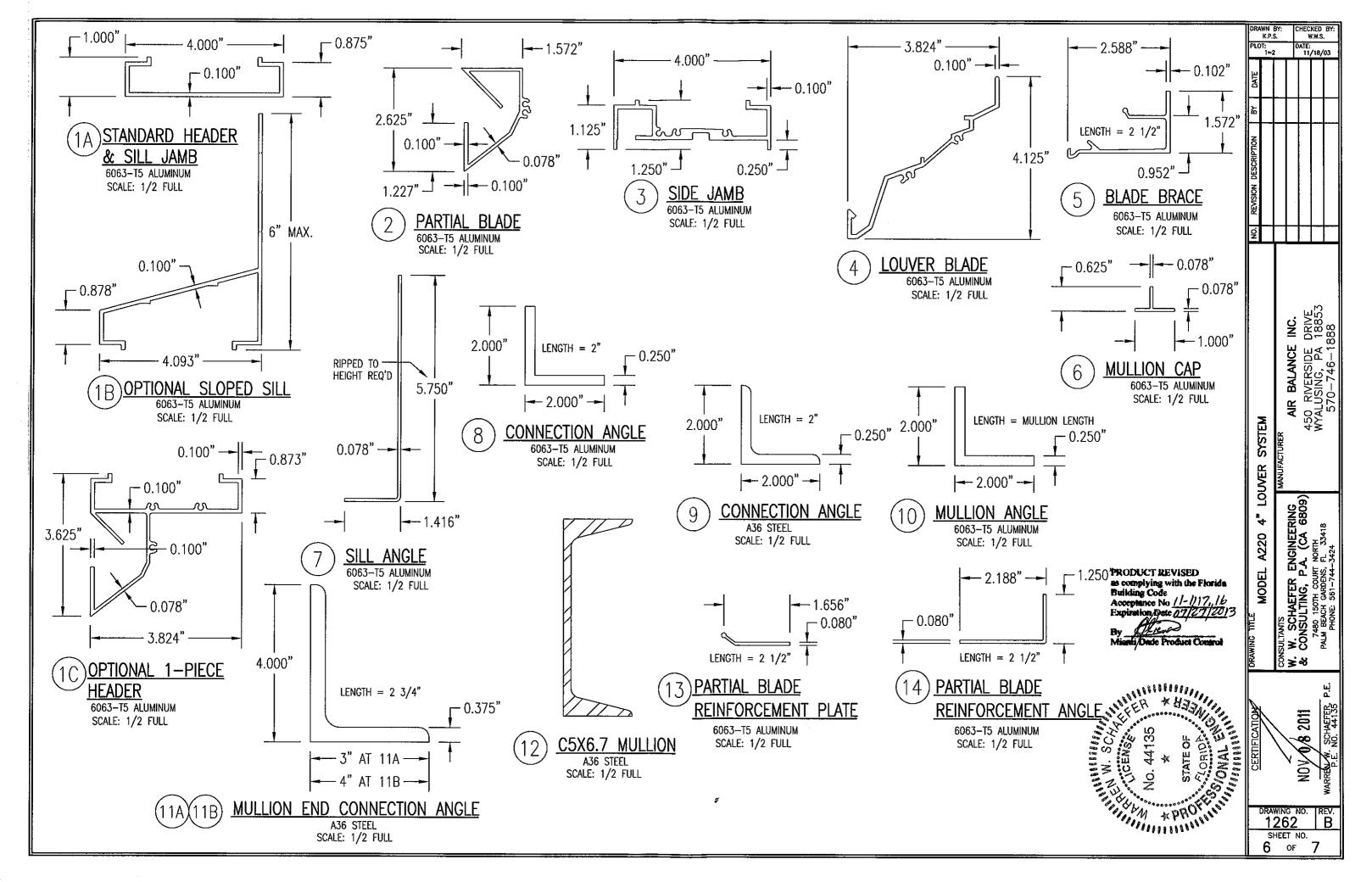












ALLOWABLE WIND PRESSURE VS. JAMB CLIP SPACING AND PANEL WIDTH						
PANEL WIDTH	CLIP SPACING		ALLOWABLE PRESSURE			
(INCHES)	(INCHES)	(PSF)	WITHOUT MID SPAN MULLIC (PSF)			
16	8	150	150			
	12	150	150			
	16	150	140			
	20	150	105			
	24	150	70			
	8	150	150			
20	12	150	140			
	16	150	112			
	20	150	84			
	24	150	56			
	8	150	140			
	12	150	117			
24	16	150	93			
	20	150	70			
	24	125	47			
	8	150	82			
	12	150	68			
28	16	150	54			
	20	150	41			
	24	107	27			
	8	150	62			
	12	150	52			
30	16	150	41			
	20	140	31			
	24	93				
	8	150				
	12	150	_			
36	16	150				
	20	125	_			
	24	83	- 			
	8	150	_			
	12	150	_			
42	16	142	_			
į	20	107				
	24	71				
	8	150				
	12	150	_			
48	16	125	-			
	20	93	–			
	24	62	-			
54	8	150				
	12	138				
	16	111				
	20	83	-			
	24	55				
	8	150	-			
60	12	125	_			
	16	100	-			
	20	75	-			
}-	24	50				

MATERIAL LICT					DRAWN BY: K.P.S.	
		MATERIAL LIST	PLOT	T: 1=1		
NO.	DESCRIPTION	NOTES/SPECIFICATIONS		Т	T	
PARTS/EXTRUSIONS			MA		ı	
1A	STANDARD HEADER & SILL JAMB	6063-T5 ALUMINUM	╽╟╼╂	-	+	
1B	OPTIONAL SLOPED SILL	6063-T5 ALUMINUM	à		ı	
1C	OPTIONAL 1-PIECE HEADER	6063-T5 ALUMINUM		+	t	
2	PARTIAL BLADE & HEAD	6063-T5 ALUMINUM	S O		١	
3	SIDE JAMB	6063-T5 ALUMINUM	RP TP	-	ı	
4	LOUVER BLADE	6063-T5 ALUMINUM	ည္သြ		l	
5	BLADE SUPPORT BRACKET (2 1/2" LONG)	6063-T5 ALUMINUM	Z.		l	
6	MULLION CAP	6063-T5 ALUMINUM; FULL LENGTH OF MULLION JAMBS	VISIC		l	
7	SILL ANGLE	6063-T5 ALUMINUM; FULL WIDTH OF PANEL	뽒		ı	
8	L2X2X1/4 JAMB CONNECTION ANGLE 2" LONG	6063-T5 ALUMINUM; WITHIN 4" OF JAMB ENDS & SPACED PER LOAD TABLE ON SHT. 2	ģ	十	t	
9	L2X2X1/4 OPTIONAL JAMB CONNECTION ANGLE 2" LONG	A36 STEEL; WITHIN 4" OF JAMB ENDS & SPACED PER LOAD TABLE ON SHT. 2	╽╟╧┻	╈	Τ.	
10	L2X2X1/4 CONTINUOUS MULLION CONNECTION ANGLE	6063-T5 ALUMINUM; FULL LENGTH OF CHANNEL MULLION		-		
11	L4X3X3/8 MULLION END CONNECTION ANGLE 2 3/4" LONG	A36 STEEL; 2 PER MULLION END		1		
12	C5X6.7 MULLION	A36 STEEL; FULL HEIGHT OF PANELS				
13	PARTIAL BLADE REINFORCEMENT PLATE (2 1/2" LONG)	6063-T5 ALUMINUM				
14	PARTIAL BLADE REINFORCEMENT ANGLE (2 1/2" LONG)	6063-T5 ALUMINUM		-	c	
15	OPEN				=	
FASTENERS						
16		WITH FLAT WASHERS, LOCK WASHER & NUT; 2 PER MULLION END			Ì	
17	NO. 14 S.S. SMS SCREWS	3 PER MULLION END CLIP WITH MIN. 1 1/2" WOOD EMBED			-	
18	5/8" X 2 1/4" SLEEVE ANCHOR WITH FLAT WASHER	USA KINGPIN ANCHOR; 1 PER CHANNEL END CONNECTION ANGLE INTO CONCRETE ONLY		-	ב	
19	1/2" X 2" A307 HEX HEAD PLATED STEEL OR S/STL BOLT	WITH FLAT WASHERS, LOCK WASHER & NUT; 1 PER CHANNEL END CONNECTION ANGLE INTO STEEL FRAME			-	
20	5/16-18 UNC X 1 1/2" HEX HEAD STEEL OR S/STL BOLT	WITH FLAT WASHER, LOCK WASHER & NUT; WITHIN 4" OF MULLION ENDS & MAX. 8" O.C.	III	ا ۋ		
21	NO. 8 X 3/4" SMS SCREW	1 AT EACH LOUVER BLADE SUPPORT BRACKET AT ARCHITECTURAL MAIN MULLIONS & ALL MID-SPAN MULLIONS	SYSTEM	? FE	!	
_22	NO. 14 X 1 1/4" HILTI TEK SCREW	WITHIN 3/4" OF MULLION ENDS & MAX. 4" O.C. INTO FRAME	G	; _[]	į	
23	NO. 14 X 1" SMS SCREW	1 AT EACH LOUVER BLADE AT ALL ARCHITECTURAL MAIN MULLIONS & ALL MID-SPAN MULLIONS	<u> </u>	: 🖺	!	
24	NO. 7 X 1" SMS SCREW	2 PER EACH LOUVER BLADE END THROUGH JAMB & INTO BLADE SPLINES	LOUVER	; ≨		
25	NO. 14 X 1 1/4" HILTI TEK SCREW	2 PER EACH HEAD, SILL & SIDE JAMB CONNECTION ANGLE	⊙	{ l		
26	1/2" X 2" LAG SCREW WITH FLAT WASHER	1 PER EACH HEAD, SILL & SIDE JAMB CONNECTION ANGLE INTO WOOD FRAME	4		2	
27	5/8" X 2 1/4" SLEEVE ANCHOR WITH FLAT WASHER	USA KINGPIN ANCHOR; 1 PER EACH HEAD, SILL & SIDE JAMB CONNECTION ANGLE INTO CONCRETE ONLY	- 11		Ē	
28	1/2" X 2" HEX HEAD A307 PLATED STEEL OR S/STL BOLT	WITH FLAT WASHERS, LOCK WASHER & NUT; 1 PER EA. JAMB CONNECTION ANGLE INTO STEEL FRAME		2	1	
29	3/8" X 1 7/8" SLEEVE ANCHOR WITH FLAT WASHER	RED HEAD DYNABOLT WITH MIN 1 1/2" BLOCK/CONCRETE EMBED (1 PER FRAME SUPPORT CLIP)			5	
30	NO. 8 X 1/2" SMS SCREW	WITHIN 2" OF MULLION ENDS & MAX. 12" O.C. (MULLION CAP TO MULLION)	╽║╶┧	. 	Ĺ	
_31	NO. 7 X 1" SMS SCREWS	2 PER FRAME CORNER THROUGH SILL/HEAD FRAME & INTO JAMB SPLINES	MODEL	} [f	
			∥ ₹	<i>:</i>	t	

PRESSURE TABLE NOTES:

- 1. WHEN THE PANEL WIDTH IS 30" OR LESS, NO MID SPAN MULLION IS REQUIRED PROVIDING COMPLIANCE WITH THE TABLE.
- 2. ALL PRESSURES IN THIS TABLE ARE FOR BOTH POSITIVE & NEGATIVE WIND PRESSURE.

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No 11-1117,16
Expiration Date 07/27/20/3
By
Miami Dade Product Control

